KACNER, A.

Bending of thin anisotropic plates of variable thickness. Bul Ac Pol tech 9 no.4:201-207 '61. (EEAI 10:9/10)

1. Department of Mechanics of Continuous Media, Institute of Fundamental Technical Problems, Polish Academy of Sciences, Presented by W. Nowacki.

(Mechanics, Applied)

KACNER, A.

Contribution to the problem of large deflections of plates and shells. Bul Ac Pol tech 9 no.6:363-370 '61.

1. Department of Mechanics of Continuous Media, Institute of Fundamental Technical Problems, Polish Academy of Sciences. Presented by W. Nowacki, member of the editorial board of "Serie des Sciences Techniques, Bulletin d l'Academie Polonaise des Sciences."

26351
P/033/61/013/003/008/008
D287/D303

24.4200 1327

AUTHOR: Kacner, Artur (Warsaw)

TITLE: Bending of plates with variable thickness

PERIODICAL: Archiwum mechaniki stosowanej, v. 13, no. 3, 1961, 393-417

TEXT: In the present paper, the author presents a formally accurate solution of the bending problem of thin isotropic plates with variable rigidity $D(x,y)$ due to a variable Young's modulus $E = E(x,y)$, Poisson's ratio $\nu = \nu(x,y)$ and plate thickness $h = h(x,y)$. He found for a rectangular plate of variable rigidity, simply supported on the edges, that by expressing the deflection surface in the form of a double Fourier sine series, the coefficients of this series can be determined from an infinite system of linear algebraic equations of simple structure. The solution thus obtained can be generalized in a natural way to rectangular plates with certain combinations of mixed boundary conditions, and to plates with holes and plates of non-typical form. In

Card 1/4

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D287/D303

Bending of plates...

the discussion of the auxiliary equations, the author states that the product of the Fourier sine series of a function and the Fourier cosine series of another function may be reduced to a Fourier sine series. For this purpose, he investigates some simple relations concerning the sum and the difference of sine series. The author then discusses another auxiliary formula which is needed to obtain the systems of equations in the canonical form and examines the bending of simply supported rectangular plates with variable thickness. The deflection surface $w(x,y)$ of an isotropic plate with variable rigidity $D(x,y)$ and variable Poisson's ratio $\nu(x,y)$, bent by the load $q(x,y)$, is described by a system of differential equations containing the bending moments M_x, M_y and the torque M_{xy}. The known functions $D(x,y)$, $H(x,y)$ are expanded in double Fourier cosine series. After a thorough treatment of the problem, during which the author introduces some notations and expands the function $q(x,y)$ in a double Fourier sine series, he obtains an infinite system of equations for determining the expansion coefficients of the deflection surface of a simply supported plate with variable modulus of elasticity $E(x,y)$, variable Poisson's ratio $\nu(x,y)$ and variable thickness

Card 2/4

Bending of plates...

$h(x,y)$. By stating the problem in a somewhat less general manner, assuming $\nu = \text{const}$, $H = \nu D(x,y)$, he then obtains the equation for an isotropic plate with variable thickness. In his further discussion, the author, as an example, considers a simply supported square plate with linearly varying rigidity $D(x) = D+D_s x$, subjected to the load $q(x) = (q_0/D) \cdot (D+D_s x)$. The next example given is that of deflection at the center of a simply supported rectangular plate, uniformly loaded. The author also discusses the problem of bending rectangular plates with variable thickness and mixed boundary conditions for the case where three edges are simply supported, the fourth being free, and where any two edges are simply supported, the other two remaining free. He states that this problem can be solved by the equations given in this article. He finally looks at the bending of non-homogeneous plates of non-typical forms, and of plates with holes, and states that this problem can also be solved by the equations mentioned in this article. He points out that the deflection surface of plates of constant or variable rigidity, with ribs in one or two orthogonal directions, as well as the deflection surface

Card 3/4

Bending of plates...

of gridworks can be determined in a similar manner. The method for obtaining the solution of the system of differential equations with variable coefficients can easily be generalized to plates with variable rigidity resting on an elastic foundation with variable foundation coefficient, and also to problems of stability and vibration of such plates. These generalizations will be examined in separate papers. There are 7 figures, 1 table and 10 references: 3 Soviet-bloc and 7 non-Soviet-bloc. The references to the English-language publications read as follows: M. E. Reissner, Remarks on the theory of bending of plates of variable thickness, J. Math. Phys., 16 (1937); Z. Kaczkowski, Statics of non-homogeneous rectangular plates and discs: in Non-Homogeneity in Elasticity and Plasticity, Pergamon Press, London-New York-Paris-Los Angeles 1959; H. D. Conway, A Levy-type solution for rectangular plate of variable thickness, J. Appl. Mech., 26 (1958); H. D. Conway, The flexure of infinite rectangular plates of varying thickness, Ing.-Arch., 1958.

ASSOCIATION: Department of Mechanics of Continuous Media, IBTP, Polish Academy of Sciences

SUBMITTED: January 25, 1961
Card 4/4

L 16733-63 EWP(r)/EWT(l)/EPF(n)-2/EWT(m)/BDS AFFTC/ASD/SSD Pu-4
S/124/63/000/004/020/064

AUTHOR: Kacner, A. 61

TITLE: Heat conduction equations for thin plates 16

PERIODICAL: Referativnyy zhurnal, Mekhanika, no. 4, 1963, 89, abstract 4B603 (Bull. Acad. polon. sci. Ser. sci., no. 3, 10, 1962, 133-138

TEXT: The author examines the nonstationary problem of heat conductivity for an orthotropic plate with variable thickness in the presence of heat sources. The convective heat exchange law is assumed at the boundary. Two equations are derived describing the nonstationary temperature field in a plate. The problem is examined in a stationary case for a rectangular plate and is reduced to an infinite system of linear algebraic equations. K. K. Vasilevskiy.

[Abstracter's note: Complete translation.]

Dept. of Mechanics of Continuous Media
Inst. of Fundamental Technical Problems
Polish Acad Sci

Card 1/1

KACNER, Artur

Temperature distribution in thin orthotropic plates of variable thickness. Archiw mech 14 no.5:811-820 '62.

1. Department of Mechanics of Continuous Media, Institute of Basic Technical Problems, Polish Academy of Sciences, Warsaw.

KUBICKI, Stefan; LATALLO, Zbigniew; KACNER, Joanna; DOROBA, Krystyna; WASILEWSKA, Helena.

Evaluation of the antithrombin test and the starch tolerance test in the diagnosis of pancreatic diseases. Pol. tyg. lek. 19 no.42:1593-1596 19 O '64

1. Z Oddzialu Chorob Wewnetrznych Centralnego Szpitala Klinicznego MSW w Warszawie (kierownik: prof. dr. med. Stefan Kubicki) i z Laboratorium Centralnego Szpitala Klinicznego MSW w Warszawie (kierownik: dr. farm. Mieczyslaw Trzaski).

LESKO, B.; KAGNIK, E.

Contribution to the geomorphology of the Biela Orava River Basin. Geogr cas SAV 15 no.3:216-220 '63.

CZECHOWICZ, Janusz, mgr inz.; KACORZYK, Edward, mgr inz.

Conditioning of mines for reversion of the existing ventilation to a simple uncomplicated ventilation system. Glow inst gorn prace no.343/351:61-69 '64.

1. Central Mining Institute, Katowice.

KACPERCZYK, Adela

Chemical (hydrolytic) resistance of glass used in the vacuum tube making industry. Przegl.elektroniki 3 no.6:306-308 Je '62.

1. Przemyslowy Instytut Elektroniki, Warszawa.

WALEWSKA, Irena; GULMANTOWICZ, Anna; KACPERSKA, Elzbieta; FRANKOWSKA, Krystyna; CHOJNACKA, Irmina; KALINSKA, Jadwiga; SENDYS, Natalia

Appearance of iso-antibodies against the blood platelets, leukocytes and erythrocytes after blood transfusion. Polski tygod. lek. 16 no.33: 1262-1267 14 Ag '61.

1. Z Zakladu Serologii; kierownik: dr med. S. Dubiski, z Oddzialu Hematologicznego; kierownik: dr med. S. Pawelski i z Oddzialu Chorob Wewnetrznych Instytutu Hematologii; dyrektor: doc. dr med. A. Trojanowski.

(ANTIBODIES) (BLOOD TRANSFUSION) (BLOOD PLATELETS) (LEUKOCYTES) (ERYTHROCYTES)

GEPNER-WOZNIEWSKA, Maria; KACPERSKA, Elzbieta; SOBCZYNSKA-CZECHOWSKA, Zofia; PAWELSKI, Slawomir

Primary auto-immune hemolytic anemias. Prolonged clinical, hematological and serological observation. Therapeutic results. Pol. arch. med. wewnet. 34 no.8:1065-1072 '64.

1. Z Oddzialu Chorob Wewnetrznych Instytutu Hematologii (Kierownik: doc. dr. med. S. Pawelski); z Oddzialu Hematologicznego (Kierownik: prof. dr. med. W. Lawkowicz) i z Zakladu Srologii (Kierownik: doc. dr. med. H. Seyfriedowa).

KACPERSKI, B.

Training workers for industry. p.317.
MECHANIK (Stowarzyszenie Inzynierow i Techników Mechanikow Polskich) Warszawa
Vol. 28, no. 8, Aug. 1955

So. East European Accessions List Vol. 5, No. 9 September 1956

KACPERSKI, T.

"Indispensable Implements for High-Altitude Flights." Aerokluby. P. 19. (SKRZYDLATA POLSKA, Vol. 10, No. 43, Oct. 1954, Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 1, Jan. 1955 Uncl.

KACPROWSKA, W.

Application of radio links in telecommunication. p. 3.

TELE-RADIO. (Stowarzyszenie Elektrykow Polskich. Sedcja Telekomunikacyjna) Warszawa, Poland. Vol. 2, No. 1, 1955.

Monthly List of East European accession (EEAI), LC. Vol. 8, No. 9 September, 1959. Uncl.

POLAND/Acoustics - Electroacoustics and Technical Acoustics J-6

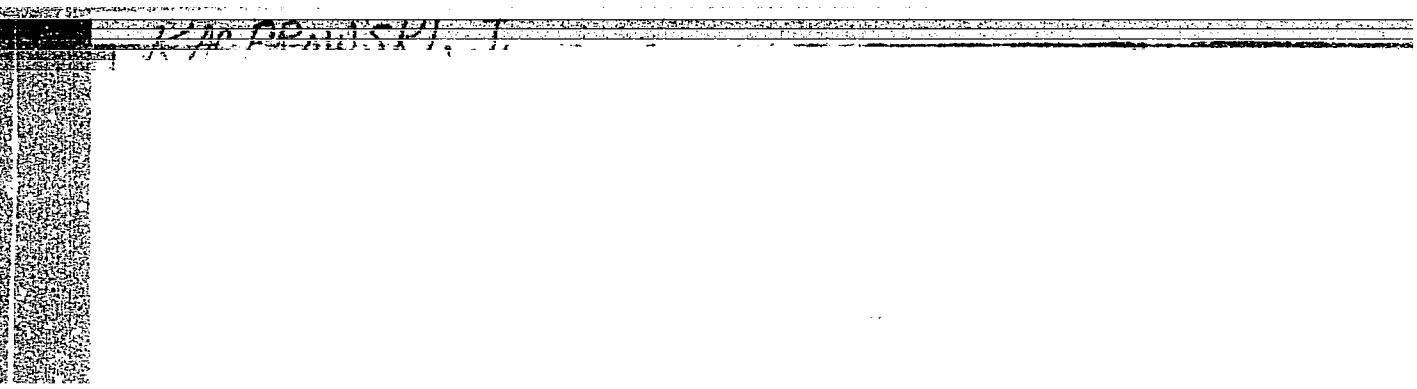
Abs Jour : Ref Zhur - Fizika, No 2, 1959, No 4142

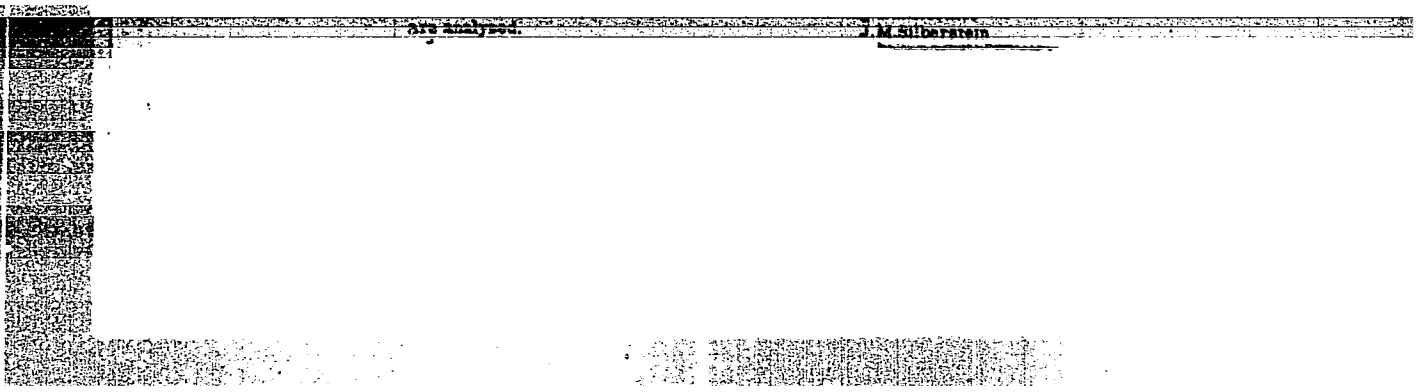
Author : Kacprowski Janusz
Inst : Institute of Basic Technical Problems, Poland
Title : Analysis of Wave Parameters of the Exponential Horn

Orig Pub : Proc. II conf. ultrason., 1956, Warszawa, PWN, 1957, 49-53

Abstract : The horn is considered from the point of view of a four-terminal network, and the equivalent circuit of the horn is represented in the form of two transformers, loaded by an impedance Z_2. The transformation ratio of the first transformer, ϱ_1, the geometric characteristics of the horn: $\varrho_1 = (S_2/S_1)^{\frac{1}{2}}$ (S_2 and S_1 are the areas of the input and output cross sections of the horn); the coefficient ϱ_2 of the second transformer is determined not only by the geometrical characteristics but also by the frequency. From the given relationship for ϱ_2 it follows that at frequencies $f_k = c(k^2\pi^2 + m^2\ell^2)^{\frac{1}{2}}/2\pi\ell$ (where ℓ is the length of the horn and m/2 is the degree of the exponent), $\varrho_2 = 1$ when $k = 2n$ and

Card : 1/2





KACPROWSKI, J.

HUNGARY/Acoustics - General J

Abs Jour : Ref Zhur Fizika, No 9, 1959, 21090

Author : Kacprowski, J.

Inst : Warsaw, Poland

Title : Possibility of Imitation of Acoustic Impedance of the Human Ear by Means of an Equivalent Circuit.

Orig Pub : Acta techn. Acad. scient. hung., 1958, 22, No 3-4, 255-264

Abstract : The impedance of the average human ear can be imitated by means of a simple equivalent circuit. The heretofore employed methods were based for the most part on the choice of the most suitable solution with the aid of successive approximations. The acoustic parameter of the presently given equivalent circuit are determined analytically. In the range of low frequencies, where the

Card 1/2

KACPROWSKI, JANUSZ

PHASE I BOOK EXPLOITATION POL/5981

Symposium on Electroaccustic Transducers. Krynica, 1958

Proceedings of the Symposium on Electroacoustic Transducers [held in] Krynica, 17-26 September, 1958. Warsaw, Panstwowe Wydawnictwo Naukowe, 1961. 442 p. Errata slip inserted. 630 copies printed.

Sponsoring Agency: Polish Academy of Sciences. Institute of Basic Technical Problems.

Ed. in Chief: Janusz Kacprowski, Doctor of Sciences; Editing Committee: Ignacy Malecki, Professor, Doctor of Sciences; Wincenty Pajewski, Doctor; and Jerzy Wehr, Master of Sciences; Secretary: Juliusz Mierzejewski.

PURPOSE: This book is intended for physicists and acoustical engineers.

COVERAGE: The book is a collection of detailed research papers constituting the proceedings of a conference held in Krynica from 17 to 26 September 1958 under the auspices of the Institute of Technical Problems, Polish Academy of Sciences.

Card 1/

POL/5981

Symposium on Electroacoustic Transducers

The following basic problems are treated: 1) theoretical research on energy transformation processes; 2) experimental development of new types of transducers; 3) electroacoustic measurements; 4) technology of piezoelectric and magnetostrictive materials; 5) construction of transducers for technical needs; and 6) design of acoustical transducer systems. No personalities are mentioned. References (if any) follow the individual articles.

TABLE OF CONTENTS:

Card 2/[illegible]

S/058/63/000/001/120/120
A062/A101

9.7000

AUTHOR: Kacprowski, Janusz

TITLE: Theoretical fundamentals of the synthesis of Polish vowels in resonant shaping circuits

PERIODICAL: Referativnyy zhurnal, Fizika, no. 1, 1963, 79, abstract 1Zh497 ("Rozpr. elektrotechn", 1962, 8, no. 1, 127 - 203, Polish; summaries in English, French and German)

TEXT: Theoretical fundamentals are outlined for the vowel synthesis in resonant shaping circuits. These circuits may find an application in transmission systems having a limited band of frequencies. Methods are described for an approximate representation of the transmission function in an equivalent electrical circuit, represented in the form of a series or parallel connection of simple resonant circuits. The superiority of the series system for purposes of the vowel synthesis is shown. An expression of the sound pressure is derived for vowel sounds, and conclusions are drawn on the technical realization of shaping synthesizers. The possibilities of condensing the communication channels on account of applying shaping synthesizers are discussed.
[Abstracter's note: Complete translation]

Card 1/1

KACPROWSKI, Janusz; MIKIEL, Wladyslaw

Preliminary synthesis of Polish vowels by means of recurrently impulsed formant filters. Proceed vibr probl 4 no.1:27-41 '63.

1. Department of Vibrations, Institute of Basic Technical Problems, Polish Academy of Sciences, Warsaw.

KACPROWSKI, Janusz

An approach to the synthesis of Polish nasal consonants by means of the terminal-analog speech synthesizer. Proceed vibr probl 4 no. 3:235-254 '63.

1. Department of Vibrations, Institute of Basic Technical Problems, Polish Academy of Sciences, Warsaw.

KACPROWSKI, Janusz; RYLL-NARDZEWSKI, Jan

Acoustic method of detecting defects in ceramic lining plates. Rozpr elektrotechn 9 no.4:571-600 '63.

1. Zaklad Badan Drgan, Instytut Podstawowych Problemow Techniki, Polska Akademia Nauk, Warszawa.

KACPROWSKI, J.; MIKIEL, W.; MARUCHIN, J.; LIPSKI, S.; BALTURKIEWICZ, Z.

Use of an acoustic analyzer of gas mixtures in the study of ether anesthesia of experimental animals. Acta physiol. pol. 14 no.1:135-144 '63.

1. Z Zakladu Badania Drgan Instytutu Podstawowych Problemow Techniki PAN w Warszawie Z Osrodka Ochrony Radiologicznej i Radiobiologii WIHE Kierownik: doc. dr J. Ryzewski.
(ETHER, ETHYL) (ANESTHESIA, INHALATION)
(EQUIPMENT AND SUPPLIES)

KACPROWSKI, Janusz

Synthesis of Polish nasal consonants in formant resonance synthesizers. Rozpr elektrotech 9 no.3:439-465 '63.

1. Pracownia Elektroakustyki, Zaklad Badania Drgan, Instytut Podstawowych Problemow Techniki, Polska Akademia Nauk, Warszawa.

KACPROWSKI, Janusz

Theoretical fundamentals of Polish vowel synthesis with use of resonant formant synthesizers. Rozpr elektrotech 8 no.1:127-203 '62.

1. Instytut Podstawowych Problemow Techniki, Polska Akademia Nauk, Zaklad Badan Drgan, Warszawa.

KACPROWSKI, J.

Speech compression by means of analysis-synthesis methods. Proceed vibr probl 5 no.3:193-207 '64.

1. Department of Vibrations of the Institute of Basic Technical Problems of the Polish Academy of Sciences, Warsaw.

SZULKIN, P.; KACPRZYNSKI, B.

Comparative analysis of approximate methods in the vibration theory. Bul Ac Pol tech 8 no.7:361-370 '60. (EEAI 10:3)

1. Communication Theory Department, Institute of Basic Technical Problems, Polish Academy of Sciences. Presented by P.Szulkin. (Vibration)

SZULKIN, P.; KACPRZYHSKI, B.

Analysis of passive multimesh electric networks with nonlinear elements. Archiw elektrotech 10 no.2:323-333 '61.

KACPRZAK, F

231

667.21-12

Kacprzak F. Dyestuffs for Improving Shades.

„Barwniki do poprawiania odcienia". Przemysł Chemiczny. No. 9, 1955, pp. 496—502, 8 figs., 9 tabs.

Chem 1

Reasons why non-uniform shades are obtained in the production of various dyestuffs. Direct dyestuffs were divided into groups, depending on the temperature of absorption from the bath. The parameters, exerting influence on the dyeing effects obtained, were analysed, the means of chosing adequate dyestuffs for shade improvement of bad production series being here given. On the basis of experimental results, components are selected for nuancing various dyestuffs. The novelty consists in abandoning the classical method of dyeing cellulose fibres at or near boiling temperature, and in applying individual temperatures depending on the optimum conditions determined.

KACPRZAK, F.

"Standardization in the Organic Semi-Products and Dyes Industry." P. 209. (WIADOMOSCI, Vol. 22, No. 4, Apr. 1954. Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 1, Jan. 1955 Uncl.

KACPRZAK FR., NIEWIECZERZAŁ B.

Barwniki skóry (leather dye-stuffs) by Fr. Kacprzak and B. Niewieczerzał. Reported in New Books (Nowe Ksiazki.) March 1, 1956.

KACPRZAK, F.

The Egyptian chemical market.

P. 172. (CHEMIK) (Warszawa, Poland) Vol. 10, no. 6, June 1957

SO: Monthly Index of East European Accession (EEAI) LC Vol. 7, No. 5, 1958

H-35

Country : Poland
Category Chemical Technology. Chemical Products and Their Applications. -- Dyeing & Chem. Treatment of Text. +1034
Abs. Jour R. Zh. - Khim., No. 11, 1959 Materials.

Author : Kacprzak, F.
Institut. : Not given
Title : The Problem of Meeting Yugoslavia's Dyestuff Needs

Orig Pub. : Chemik, 11, No 2, 44-46 (1958)

Abstract : Yugoslav dyestuff consumption for 1957 is estimated at 2,300 tons, of which 700 tons consisted of Yugoslav-made products. In 1955 the Yugoslav textile industry imported 830 tons of dyestuffs (525 tons azo dyes, 175 tons sulfur dyes, 90 tons of chemical fixing agents, and 40 tons of vat dyes) and 300 tons were imported by the other branches of the Yugoslav economy. In Yugoslavia dye production is carried on at the factory in Zel which in 1955 produced 362 tons of dyestuffs and intermediates. Eleven types of direct dyes, 5 types of acid dyes, 3 types of dyes for semiwool [sic] fibers

Card: 1/2

H-15

H-34

Country : Poland
Category Chemical Technology. Chemical Products and Their Applications. -- Dyeing & Chem. Treatment of Text.
Abs. Jour R. Zh. - Khim., No. 11, 1959 Materials. 41034

Author :
Institut. :
Title :

Orig Pub. :

Abstract : one brown amine dye, and 12-15 individual sulfur dyes (together with 40 mixed sulfur dyes) [original appears unclear] as well as vat olive dyes made by the sulfurization of anthracene are produced. The Khronos factory in Zagreb produces organic pigments (50 tons, including 10 tons of Hansa Yellow) and azo dyes. The Pliva factory in Zagreb produces azo dyes (capacity 50 tons). Both factories together with a third factory in Zagreb (Katram) plan the production of intermediates and dyestuffs [sic]. The production of 1,500 tons (700 tons of azo dyes, 450 tons of sulfur dyes and vat olives, and 350 tons of organic pigments) is planned during the current five-year-plan.

Card: 2/2

I. Fodiman

JANICKA, Krystyna; KACPRZAK, Franciszek

Chromatographic analysis of vat dyes. Chem anal 4 no.5/6:915-923 '59. (EEAI 9:9)

1. Instytut Przemyslu Organicznego, Oddzial w Lodzi.
(Chromatography) (Dyes and dyeing)

KACPRZAK, Franciszek

The Polish Committee of Coloration. Przegl wlokien 16 no.4:241-242 Ap '62.

1. Instytut Przemyslu Organicznego, Lodz.

KACPRZAK, Franciszek, mgr inz.

Development of the British Imperial Chemical Industries Ltd.
Chemik 16 no. 5:165 My '63.

KACPRZAK, Fr., mgr inz.

Rationalization and technical progress in industrial production.
Chemik 16 no.7/8:181-185 Jl-Ag '63.

1. Czlonek Rady Glownej Naczelnej Organizacji Technicznej, Warszawa.

KACPRZAK, Franciszek, mgr inz.

Institute of Organic Industry, Lodz Branch. Chemik 16 no.9: 262-264, 265 S '63.

KACPRZAK, Franciszek, mgr inz.

Problems of organic technology, a subject at the congress in Belgrad. Chemik 16 no.11:350 N '63.

KACPRZAK, Irena (Warszawa, ul. Francuska 12)

Renal changes in diabetes. Polski tygod. lek. 9 no.20:630-632 17 May 54.

(DIABETES MELLITUS, physiology, kidneys)
(KIDNEYS, in various diseases, diabetes mellitus)

KACPRZAK, J.

(DROGOWNICTWO. Vol. 6, No. 9, Sept. 1951, Warsaw, Poland)
"A device for drilling holes in cylinder pistons for piston rods." p. 276.

SO: MONTHLY LIST OF EAST EUROPEAN ACCESSIONS, L.C. VOL. 3, No. 4, APRIL 1954

KACPRZAK, J.

POL.

X-ray identification of crystalline phases in iron ores. Z. Bojarski and J. Kacprzak (Inst. Met., Gliwice, Poland). *Prace Inst. Mineralurgii Hutnic* 6, 203-74(1954)(English summary); cf. *C.A.* **49**, 12540b.—X-ray identification combined with chem. analysis of 5 Fe ores showed the following compns.: ore from Krzywy Róg, U.S.S.R.-hematite 83.11, quartz 14.04, CaO 0.08, MgO 0.16%, and traces of magnetite; brown ore from mine Z, Poland—goethite (limonite) 55.09, quartz 34.03, Al_2O_3 2.34, CaO 0.11, and MgO 0.45%; sphero-siderite ore from mine C, Poland—siderite 55.08, calcite 20.28, quartz 14.70, Al_2O_3 1.68, and MgO 3.77%; another ore from the latter mine—goethite 46.16, quartz 42.03, Al_2O_3 3.4, CaO 0.10, and MgO 0.48%; ore from mine S, Poland—Fe 43.60% (in form of siderite, hematite, and goethite), SiO_2 0.54, Al_2O_3 1.38, and CaO 0.22%. X-ray identification was only possible on cryst. phases which were inferences of 2–5%.

Frank J. Hendel

KACPRZAK, K., mgr. inz.

A device for checking the speed of automobiles. Pomiary 8 no.3:131 Mr '62.

KACPRZAK, K., mgr. inz.

New devices for measurements of the length of wires and cables.
Pomiary 8 no.6:258 Je '62.

1. Laboratorium Pomiarow Predkosci, Glowny Urzad Miar, Warszawa.

LEMPART, Stanislaw, inz.; KACPRZAK, Kazimierz, inz.; ORLINSKI, Henryk, mgr; ORNACKI, Jan, inz.; WARCHAL, Boguslaw, mgr inz.; WOJCIECHOWSKI, Jacek, mgr inz.

Analysis of the utilization of supporting pillars with concrete stowing. Rudy i metale 6 no.9:389-394 S '61.

KACPRZAK, K., mgr inz.

Stationary taximeters on rolls. Pomiary 9 no.12:645-646 D '63.

1. Laboratorium Pomiarow Predkosci, Glowny Urzad Miar, Warszawa.

KACPRZAK, M.

"The sword or the iron rod." p. 6 (Zdrowie, Vol. 5, No.11, 1953, Warsaw)

SO: Monthly List of East European Accessions, Library of Congress, Vol. 3, No. 6, June. 1954, Uncl.

KACPRZAK, M., Prof. Dr.

Problems of rural hygiene. Zdrowie pub., Warsz. no.5:339-347
Sept-Oct 54.
(HYGIENE,
rural in Poland)
(RURAL CONDITIONS,
in Poland, hygiene)

KACPRZAK, Marcin

Institute of Medical Specialization. Polski tygod. lek. 9 no.31: 961-962 2 Aug 54.

(SPECIALISM, in Poland)

KACPRZAK, Marcin

Medicine as a democratic science unifying nations. Polski tygod. lek. 9 no.44:1437-1438 2 Nov 54.
(HISTORY, MEDICAL,
in Poland)

KACPRZAK, M. Prof.dr.

Importance of hygiene in the conditions of our social life.
Zdrowie pub.,Warsz. No.3:161-165 May-June '55.
(PUBLIC HEALTH,
in Poland, hygiene cond.)

KACPRZAK, M.

Jak ustrzec sie chorob pochodzenia jelitowego (How to avoid diseases caused by the bowels), by M. Kacprzak. Reported in New Books, (Nowe Ksiazki), No. 6, March 15, 1956.

KACPRZAK, Marcin, Prof., Dr., nauk med.

Education of physicians in the modern era. Polski tygod. lek. 11 no.30:1353-1360 23 July 56.

1. Zakl. Higieny A.M. w Warszawie; ul. Chocimska 24.
(EDUCATION, MEDICAL,
(Pol))

KACPRZAK, Marcin

Decline of the medical profession. Polski tygod. lek. 12 no.14: 532-534 1 Apr '57.
(MEDICINE
decline (Pol))

KACPRZAK, Marcin. (Warszawa, Chocimska 24)

Do not be ashamed of being good. Polski tygod. lek. 12 no.30:1172-1174 22 July 57.
(ETHICS, MEDICAL,
(Pol))

KACPRZAK M.

EXCERPTA MEDICA Sec 7 Vol 13/1 Pediatrics Jan 59

318. PROBLEMS OF MODERN SCHOOL HYGIENE - Probleme der modernen Schulhygiene - Kacprzak M. Med. Akad., Warschau - Z. ÄRZTL. FORTBILD. 1957, 51/21-22 (932-934)

After a survey of the history of school medicine, a description is given of the present situation in Poland. A better clinical orientation of the school doctor is desired and a plea is made for close cooperation with the teaching staff. It must control the hygiene of the surroundings, personal hygiene and preventive measures. A most thorough, all-embracing training is neccessary. Santema - Leyden (VII,17)

KACPRZAK, Marcin

Old and new humanism. Polski tygod. lek. 14 no.41:1847-1851 12 Oct 59.

(HUMANITIES)

KACPRZAK, Marcin

The evolution of views regarding school hygiene. Pediat. polska 35 no.8:925-932 Ag '60.
(SCHOOL HEALTH)

KACPRZAK, Marcin

Social role of a physician in the modern world. Polski tygod. lek. 16 no.6:230-234 6 F '61.

(PHYSICIANS social)

HUNGARY

KACPRZAK, M. Dr. [Affiliation not given.]

"The Position of the M.D. in Today's Society."

Budapest, Orvosi Hetilap, Vol 103, No 46, 18 Nov 62, pages 2166-2168.

Abstract: The author discusses the historical development of the doctor's role in the Polish society. The problems of medical ethics, the standing of doctors in the society, wages, specialization and health insurance are presented.

[This paper is published, as part of an exchange program, from the Polski Tygodnik Lekarski.]

[no references]

1/1

KACPRZAK, Marcin

An address to medical school graduates in 1962. Pol. tyg. lek. 17 no.37:1459-1462 10 S '62.
(MEDICINE) (SOCIAL CONDITIONS)

KACPRZAK, M. 31

POLAND

KULESZA, Aleksandra; Department of Epidemiology (Zaklad Epidemiologii), PZH (Panstwowy Zaklad Higieny -- State Institute of Hygiene), Director: Prof Dr J. KOSTRZEWSKI, Head of the Institute: Prof Dr F. PRZESMYCKI; with the collaboration of J. GOLBA, T. JOPKIEWICZ, M. KACPRZAK, W. KOCIELSKA, M. KOPEC, K. LIPINSKA, R. LUTYNSKI, J. MAKAREWICZ, H. MALYSZKO, K. NEYMAN, A. OLES, S. PESKA, K. POPIELEWICZ, T. RODKIEWICZ, J. ROZWADOWNA, W. SOCZEWICA, S. SZCZESNIAK, D. ZOLNIERZOWA all of the Wojewodztwo Health and Epidemiological Stations (Wojewodzkie Stacje Sanitarno-Epidemiologiczne); H. BOBROWSKI, A. GECOW, J. GELBER, M. GRUSZCZYNSKA, H. JASTRZEBSKA, E. JUZWA, J. KUROCZKIN, Z. RESZKE, R. STANCZYK, J. SYGNATOWICZOWA, Z. SZCZERSKA, K. SZCZYGIELSKI, S. SZYNDLAR, K. SWICOWA, J. WAJSZCZUK, R. WARZECHA all of the Departments of Poliomyelitis Patients (Oddzialy dla Chorych na Poliomyelitis) of the Wojewodztwo Health and Epidemiological Stations; J. ADAMSKI (Poznan), H. DOBROWOLSKA (Warsaw), J. BOCHENSKA (Lodz), M. KOENIG (Krakow); H. DOBROWOLSKA of the Department of Virology (Zaklad Wirusologii) of PZH,

1/2

POLAND

Director: Prof Dr F. PRZESMYCKI, technical aid: A. BACINSKA

"Epidemic Situation of Poliomyelitis in Poland in 1961"

Warsaw, Przeglad Epidemiologiczny, Vol XVI, No 4, 1962, pp369-375.

Abstract: [Author's English summary modified] The profound influence on the epidemiology, etiology and clinical picture of poliomyelitis of the introduction of mass immunization with attenuated polio vaccines in 1959 is discussed. Observations on the influence and effect of immunizations with such vaccines on the epidemic situation of poliomyelitis in Poland are reported. 4 tables, 2 diagrams; 5 Polish references.

2/2

KACPRZAK, M.

30

POLAND

KULESZA, Aleksandra of the Department of Epidemiology (Zaklad Epidemiologiczny) of the PZH (Panstwowy Zaklad Higieny -- State Institute of Hygiene), Director: Prof Dr F. PRZESMYCKI, Head of the Department: J. KOSTRZEWSKI; J. GOLBA, T. JOPKIEWICZ, M. KACPRZAK, W. KOCHELSKA, K. LIPINSKA, R. LUTYNSKI, J. MAKAREWICZ, S. PECKA, T. RODKIEWICZ, W. SOCZEWICA, S. SZCZESNIAK, D. ZOLNIERKOWA all of the WSSE (Wojewodzkie Stacje Sanitarno-Epidemiologiczne -- Wojewodztwo Health and Epidemiology Stations); H. DOBROWSKI, A. GROCW, J. GELBER, E. JUZWA, J. KUROSZKIN, J. SIGNATOWICZOWA, Z. SZCZERBA, K. SZCZYGIELSKI, K. SWICOWA, R. WARZECHA of the Departments of Poliomyelitis Patients (Oddzialy dla Chorych na Poliomyelitis) of the WSSE; H. DOBROWOLSKA of the Department of Virology (Zaklad Wirusologii) of PZH, Director: Prof Dr F. PRZESMYCKI; J. ADAMSKI (Poznan), H. DOBROWOLSKA (Warsaw), J. BOCHENSKA (Lodz), M. KOENIG (Krakow), H. MAKOWER (Wroclaw), F.Z. TAYTSCH (Warsaw) of the PZH; technical aid of A. BAGINSKA of the PZH.

"Safety of Immunization with the Attenuated Polio Virus

1/2

POLAND

Strains Type 1 Chat and Type 3 W Fox''

Warsaw, Przegled Epidemiologiczny, Vol XVI, No 4, 62, pp 377-388.

Abstract: [Author's' English summary modified] An epidemical, clinical and virological analysis of poliomyelitis in Poland was made within 6 weeks after completion of oral immunization with polio virus type 1 Chat and type 3 W Fox. Investigations made in 1959 and 1960 show the complete safety of Koprowski's attenuated oral vaccine type 1 Chat. The strain 3 W Fox is indicated as a pathogenic one and its uncertain safety found by investigations in 1960 has been confirmed. 8 tables; 2 diagrams; 9 references, 2 Polish the rest Western.

12/2

SZYMCZYK, F., inz.; SZCZYGIEL, A., prof. dr; NIKONOROW, M., prof. dr; JUST, J., prof. dr; KACERZAK, M., prof. dr

Works and achievements in public hygiene during the 20-year period of the Polish People's Republic. Roczn panst zakl hig 15 no.4:337-347 '64.

PRAZMOWSKI, Wladyslaw; KACPRZAK, Miroslaw

Smallpox in the Lodz Province in 1963 and its control. Przegl. epidem. 18 no.2:205-208 '64.

1. Z Wojewodzkiej Stacji Sanitarno-Epidemiologicznej w Lodzi.

KULESZA, Aleksandra; KACPRZAK, Miroslaw; MILEWSKA, Lucyna.

Mass smallpox vaccinations in Poland in 1963 and the epidemic situation of viral hepatitis. Przegl. epidem. 19 no.3:321-330 '65.

1. Z Zakladu Epidemiologii Panstwowego Zakla'u Higieny w Warszawie (Kierownik: prof. dr. med. J. Kostrzewski) i z W jewodzkiej Stacji Sanitarno-Epidemiologicznej wojewodztwa Lodzkiego.(Kierownik: dr. W. Przmowski).

L 31843-66 T JK

ACC NR: AP6021324 (A) SOURCE CODE: PO/0081/65/019/003/0321/0330

AUTHOR: Kulesza, Aleksandra--Kulesha, A.; Kacprzak, Miroslaw--Katspzhak, M.; Milewska, Lucyna--Milevska, L.

ORG: Institute of Epidemiology/director: Professor, Doctor of medicine J. Kostrzewski/, PZH, Warsaw (Zaklad Epidemiologii); Regional Public Health and Epidemiological Station/director: Doctor W. Prazmowski/, Lodz (Woj. Stacji San.-Epid.)

TITLE: Mass smallpox vaccinations in Poland in 1963 and the incidence of viral hepatitis

SOURCE: Przeglad epidemiologiczny, v. 19, no. 3, 1965, 321-330

TOPIC TAGS: immunization, disease control, virus disease, hepatitis, disease incidence

ABSTRACT: Mass vaccination against smallpox carried out between the end of July and September 1965 coincided with a rise in the incidence of viral hepatitis. The latter appeared to spread more frequently in districts where the bulk of the population had been vaccinated (34 to 100 percent), and paradoxically where the lowest percentage of vaccinations had been recorded (7 to 9 percent). Analysis of data obtained over a period of 7 months revealed that mass smallpox vaccination entails the risk of viral hepatitis which reached the critical point about three months after vaccinations had begun. This is consistent with the assumed incubation period of serum hepatitis. However, lack of correlation between the risk index of infectious hepatitis and the number of vaccinations would indicate that the latter had little influence on the spread of the overall epidemic but may have contributed to a rise in the number of cases. The authors express thanks tc Mieczyslaw Graczykowski, Jadwiga Iwaniecka, Ewa Jarnuszkiewicz, Bohdan Brojek for technical assistance and compiling the statistics. Orig. art. has: 5 figures and 4 tables. [JPRS]

SUB CODE: 06/ SUBM DATE: none/ ORIG REF: 002/ OTH REF: 001

Card 1/1 mc

KACPRZAK, Wincenty, mgr inz.; GLOWACZ, Kazimierz, inz.; LUBOCH, Wladyslaw, mgr inz.; LEMPART, Stanislaw, inz.

Increase of the mechanization of Zn-Pb ore winning in the mining industry. Rudy i metale 7 no.12:539-546 D '62.

STEMPIEN, Ryszard; NIEDZIELSKA, Halina; KULARSKA, Irena; KACPRZAK, Zdzislawa, Dz.; LEWICKA, Jolanta; LUFT, Anna

Digestive tract disorders in the course of chloromycetin treatment. Polski tygod. lek. 13 no.36:1398-1403 8 Sept 58.

1. Z Kliniki Chorob Zakaznych A. M. w Lodzi; kierownik: doc. dr med. J. Chrzanowski i ze Stacji Sanatorno-Epidemiologicznej m. Lodzi; dyrektor: dr med. J. Zanski. Adres: Lodz, ul. Wieckowskiego Nr 7 m. 22.

(CHLORAMPHENICOL, inj. eff.
gastrointestinal disord. (Pol))
(GASTROINTESTINAL DISEASES, etiol. & pathogen.
chloramphenicol (Pol))

CHRZANOWSKI, Jan; KACPRZAK, Zdzislawa; LEWICKA, Jolanta; KANOWNIK, Genowefa; STEMPIEN, Ryszard

Comparative evaluation of results of clinico-laboratory examinations in the diagnosis of acute and chronic dysentery. Przegl.epidem. 14 no.3:321-324 '60.

1. Z Kliniki Chorob Zakaznych A.M. w Lodzi Kierownik: doc. dr med. J.Chrzanowski ze Szpitala im. dr Wl.Bieganskiego w Lodzi Ordynator: dr Wl. Kozlowski z Miejskiej Stacji Sanitarno-Epidemiologicznej m.Lodzi Dyrektor: dr J.Zanski.
(DYSENTERY BACILLARY diag)

KACPRZYK, Helena, mgr

List of publications of scientific workers of the Division of Biology and Earth Science and the Division of Mathematics, Physics, and Chemistry of the University of Lodz for the year 1959. Nauki matem przyrod Lodz no.10:211-230 '61.

KACPRZYK, Helena

List of publications of workers of the Department of Biology and Soil Science as well as the Department of Mathematics, Physics and Chemistry of the University in Lodz during the years 1956-1958. Nauki matem przyrod Lodz no.7:217-246 '60.

KACPRZYK, Helena

List of publications of workers of the Chair of Biology and Earth Science as well as of Mathematics, Physics, and Chemistry of the University of Lodz during the year 1960. Nauki matem przyrod Lodz no.13:165-181 '62.

ZACPRZYK, H[illegible]

List of publications of scientific workers of the Division of Biology and Earth Sciences as well as the Division of Mathematics, Physics, and Chemistry of the Lodz University for [illegible]. Nauki matem przyrod Lodz no.16:20[illegible]-215 '64.

POLAND

KACPRZYNSKI, Bogdan

Department of Optimization Theory, Automation Institute, Polish Academy of Sciences (Zaklad Teorii Optymizacji Instytutu Automatyki PAN)

Warsaw, Archiwum automatyki i telemechaniki, No 3, July-September 1965, pp 318-340

"The algorithm of adaptive optimization of the performance of dynamic systems with relaxation iteration procedure."

POLAND

KACPRZYNSKI, Bogdan

Dept. of Optimization Theory, Automation Institute, Polish Academy of Sciences (Instytut Automatyki PAN, Zaklad Teorii Optymizacji)

Warsaw, Archiwum automatyki i telemechaniki, No 2, Apr-Jun 1966, pp 147-163

"Sequential extremum-seeking method."

L 29318-66 EWP(v)/EWP(k)/EWP(h)/EWP(l) BC
ACC NR: AP6004520 SOURCE CODE: PO/0031/65/010/003/0319/0340

AUTHOR: Kacprzyński, Bogdan--Katspzhin'ski, B. 45 B

ORG: Department of the Theory of Optimization, Institute of Automation of the Polish Academy of Sciences (Zaklad Teorii Optymizacji Instytutu Automatyki PAN)

TITLE: The adaptive optimization algorithm of the performance of dynamic systems with a relaxation iteration procedure

SOURCE: Archiwum automatyki i telemechaniki, v. 10, no. 3, 1965, 319-340

TOPIC TAGS: automation, automation equipment, algorithm, algorithmic language, OPTIMAL AUTOMATIC CONTROL, SEQUENCE, RELAXATION PROCESS, ITERATION

ABSTRACT: The present study, which is the first of a series dealing with the adaptive optimization of the performance of objects having unknown dynamic properties discusses the problem of the creation and implementation of the algorithm of adaptive optimization for objects in which it is possible to disregard the effect of noise and disturbances. This algorithm must combine in some reasonable proportion the quantity and accuracy of all functions of identification of the actual dynamic properties of the object with the best possible control of the object. One study of objects operating in the presence of disturbances has already been published, and another is to

Card 1/2

appear in the near future. The purpose of this study, therefore, is to obtain a practical and suitable algorithm rather than to obtain new, general theoretical solutions. The algorithm is given in the form of an iteration formula and an additional organization, the relaxation periods, is introduced into the expressions for the iteration sequence obtained with the aid of this formula which makes it possible to ensure high algorithm effectiveness. The algorithm created makes it possible to determine the sequence of control functions which satisfy the simplified convergence criterion equivalent to the concept of the weak convergence of the function sequence. It is shown that the algorithm may be used for the optimization of the performance of objects having changing dynamic properties. Orig. art. has: 50 formulas and 8 figures.

SUB CODE: 12, 13/ SUBM DATE: 04Jan65/ ORIG REF: 006/ OTH REF: 005

SOV REF: 008

L 00862-67 IJP(c)

ACC NR: AP6029482 SOURCE CODE: PO/0031/66/011/002/0147/0164

AUTHOR: Kacprzynski, Bogdan--Katspzhin'ski, Bogdan

ORG: Department of Optimization Theory Institute of Automation, PAN (Instytut Automatiyki PAN, Zaklad Teorii Optymizacji)

TITLE: Sequential method of extremum seeking

SOURCE: Archiwum automatyki i telemechaniki, v. 11, no. 2, 1966, 147-164

TOPIC TAGS: extremum, extremum seeking, sequential method, dynamic property

ABSTRACT: The author attempts to determine the possibility and characteristics of an effective sequential method of seeking an argument for which the continuous function of one variable assumes an extreme value. This method should not be based on an assumption that the function is characterized by convexity (or concavity). The effectiveness of the method is measured by the ratio of the limit length of argument values, in which the examined function assumes extreme values, to the number of necessary observations of function values. Applying the property

Card 1/2

L 00862-67
ACC NR: AP6029482

of the equipartition of irrational numbers, sequential polynomials $K_n(x; \nu; A)$ are introduced which best approximate zero in the interval [-1, 1] in the sense of the Chebyshev norm. Their convergence and the possibility of their use in interpolating the approximation are examined. A method based on the properties of the polynomials is presented, which solves the problem of seeking a value for the argument which provides the function of one variable with an extreme value. This method is both effective and practical. Two variations of the method are described, differing only slightly in their computation techniques. The paper is the second in a series of works devoted to problems of adaptive optimization of dynamic systems with unknown a priori dynamic properties. [Based on author's abstract] [SP]

SUB CODE: 12/ SUBM DATE: 24Oct65/ ORIG REF: 004/ SOV REF: 003/ OTH REF: 005/

Card 2/2 pb

32207
P/031/61/006/004/001/010
D242/D301

16.8000 (1103, 1031, 1132)

AUTHOR: Szulkin, Paweł, and Kacprzyński, Bogdan

TITLE: Application of delay lines as equalizers in control systems

PERIODICAL: Archiwum automatyki i telemechaniki, v. 6, no. 4, 1961, 371-388

TEXT: The authors investigate the possibility of applying delay lines as a correcting element for distortions in control systems, discussing polynomial, harmonic and dynamic classes of equalizers. The three classes are very similar and consist of a delay line with an approximate number of tappings and amplifiers and a summing element. A polynomial equalizer is defined by

$$C_k(s) = K_0 + K_1 e^{-T_1 s} + K_2 e^{-T_2 s} + \ldots + K_n e^{-T_n s} = \sum_{i=0}^{i=n} K_i e^{-T_i s} \qquad (7)$$

Card 1/2

Application of delay...

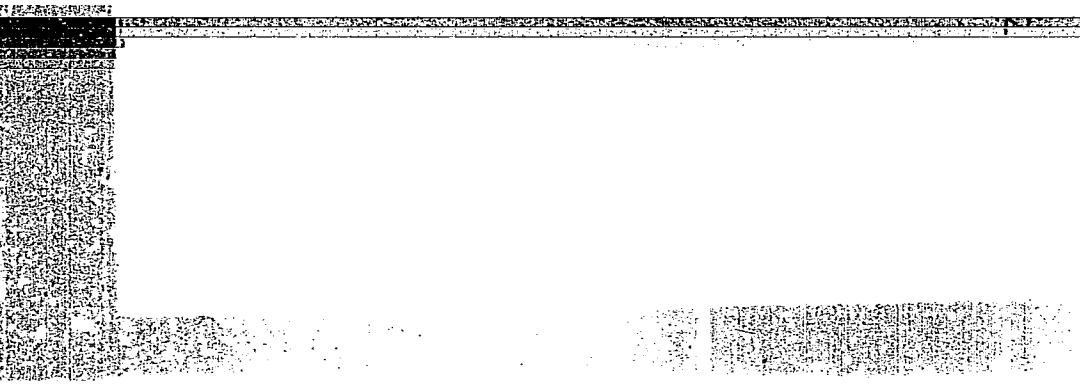
and a figure, and the effects of an equalizer on the response characteristics; it is illustrated by a numerical example. A harmonic equalizer is very similar to the polynomial. The parameters of both systems differ only by a few percent. Harmonic equalizers are much simpler to calculate since they are based on harmonic functions and form a convenient starting point for calculating polynomial equalizers. Since parameters differ by only a small margin, it is possible to use harmonic equalizers for more ambitious schemes offered by polynomial equalizers. For the best approximations of functions, the delay time should be short with a great number of tappings. However, generally, the shorter the delay time, the greater the amplification necessary. The dynamic equalizer is also similar to the polynomial, but a new condition is added. The transient response time is to be less than the delay time of a complete line. There are 14 figures and 3 references: 2 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: Yu-Chi-Ho, IRE Convention Theory, Part 4, 24-26 (1955).

SUBMITTED: November 16, 1960

Card 2/2

KACPRZYNSKI, Bogdan; TURSKI, Andrzej

Trapezoidal wave form amplitude modulation as used for short-wave radio transmitters. Przegl telekom 35 [i.e. 36] no. 8:241-243 Ag '63.



APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820010-5"

KACPRZYNSKI, J.

PHASE I BOOK EXPLOITATION POL/4460

Polska akademia nauk. Instytut podstawowych problemów techniki

Zagadnienia drgań nieliniowych, 1 (Problems of Nonlinear Vibrations, Vol. 1) Warsaw, Państwowe wyd-wo naukowe, 1960. 136 p. 650 copies printed.

Ed.: Stefan Ziemba; Deputy Ed.: Jarosław Skowroński.

PURPOSE: This book is intended for scientists and engineers interested in theoretical and experimental research on vibrations.

COVERAGE: The collection contains 10 articles on the theory and measurement of nonlinear vibrations of structural systems. The basic problem is the nonlinear character of the dependence of the acting forces on the strains or the velocity of motion of particular elements of the investigated structural system. This nonlinearity is to be taken into consideration in calculating electrical and automation systems. The mathematical procedures of the investigation of motion in the calculation of the nonlinearity of systems with a finite number of degrees of freedom are based on the theory of dynamic systems generalized according to the work of Birkhoff and other classic studies. The combination of the purely technical problems of vibration theory with the theory of dynamic systems has contributed to the rapid development of nonlinear vibration theory during the last decade. The main research activities in this field have been based on the development of adequate mathematical centers like the school of V.V. Nemytskiy and Krasnosel'skiy in the USSR. In Poland, the mathematical school of T. Ważewski is working in this field with very promising results. For several years a group of workers of the ZBD-IPPT PAN (Zakład Badań Drgań Instytut Podstawowych Problemów Techniki Polskiej Akademii Nauk (Department of Vibrations Study, Institute of Basic Technical Problems of the Polish Academy of Sciences) has conducted studies on two sets of problems: 1) the qualitative analysis and synthesis of the motion of mechanical systems of several degrees of freedom; and 2) the quantitative analysis of the motion of such systems by asymptotic methods. The papers of this collection are concerned chiefly with the first set. References and summaries in Russian and English are given at the end of each article.

AVAILABLE: Library of Congress

(3)

S/124/62/000/009/003/026
A001/A101

AUTHORS: Bobeszko, A., Kacprzyński, J., Kaliski, S.

TITLE: Vibrations and stability of elastic slender bodies in linearized supersonic flow

PERIODICAL: Referativnyy zhurnal, Makhanika, no. 9, 1962, 27, abstract 9B156 ("Proc. Vibrat. Probl. Polish Acad. Sci.", 1960, no. 4, 77 - 89, English; Polish and Russian summaries)

TEXT: The authors derive a differential equation for small vibrations of an elastic slender axial-symmetric body of revolution in a supersonic flow with allowance for an axial compressive force. The problem is reduced to the solution of a Volterra integral equation of second kind; no effective solution of the problem has been obtained.

A. I. Smirnov

[Abstracter's note: Complete translation]

Card 1/1

L 17405-63 EWP(r)/EWP(q)/EWT(m)/BDS AFFTC/ASD/APGC EM/JD

S/124/63/000/004/043/064

AUTHOR: Kacprzynski, Jerzy

TITLE: The dynamic problem of thermoelasticity in a circular cone

PERIODICAL: Referativnyy zhurnal, Mekhanika, no. 4, 1963, 16, abstract 4V119 (Proc. Vibrat. Probl. Polish Acad. Sci., v. 3, no. 2, 1962, 193-210)

TEXT: The dynamic problem of thermoelasticity for a regular isotropic circular cone is solved by reducing to Fredholm's integral equations of second degree. Two basic methods are studied: one consisting of a transformation of Lame's equations which leads to integral equations for divergence and rotation of the displacement vector (See Arzhanykh, I. S., Integral Equations of Basic Problems of the Theory of a Field and the Theory of Resilience, Tashkent 1954); and the other consisting of an expression of the displacement vector components by potentials, and in the construction of integral equations for them. Proceeding on the theory of Green's function of multidimensional operators, the author determines the necessary Green functions for a solution to the problem with boundary conditions in displacements and stresses. I. N. Danilova.

[Abstracter's note: Complete translation.]

Card 1/1

KACPRZYNSKI, Jerzy

A perturbation method for solving the dynamical problem of elasticity of the circular cone. Proceed vibr probl 4 no.1:95-133 '63.

1. Department of Vibrations, Institute of Basic Technical Problems, Polish Academy of Sciences, Warsaw.

L 14630-66 EWT(m)/ETC(f)/EPF(n)-2/EWG(m) WW
ACC NR: AP6008158 SOURCE CODE: PO/0046/65/010/007/0443/0452

AUTHOR: Kacprzynski, Jerzy--Katspshyn'ski, Y.; Adamska, Hanna--Adamska, Kh. 57 B

ORG: Department of Fluid Mechanics and Gases, Institute of Fundamental Problems of Technology, PAN, Warsaw (Zaklad Mechaniki Cieczy i Gazow, Instytut Podstawowych Problemow Techniki, PAN)

TITLE: Selfexcited vibration of nuclear reactor fuel channels with water cooling 19

SOURCE: Nukleonika, v. 10, no. 7, 1965, 443-452

TOPIC TAGS: water cooled nuclear reactor, flow velocity, vibration, computer calculation

ABSTRACT: An attempt was made to explain the self-excited vibration of nuclear reactor fuel channels on the basis of hydro-flutter. The fuel channel was in the form of a very long tube fixed vertically with water flowing both outside and inside. It was assumed that the mean flow velocity is uniform and constant and that a small unsteady perturbation described by the velocity potential is superimposed. The equation of vibration of the channel treated as a beam submerged in a flowing fluid was derived and solved by the Galerkin method. The influence of

Card 1/2 2

L 14630-66
ACC NR: AP6008158

the directions and the magnitudes of the internal flow velocities on the regions of instabilities was examined. A numerical example solved on the Elliott-803 B computer, showed that self-excited vibration of nuclear reactor fuel channels may be explained on the basis of hydro-flutter. Orig. art. has 3 figures and 3 formulas.
[NA]

SUB CODE: 18 / SUBM DATE: none / ORIG REF: 001 / OTH REF: 003

Card 2/2

KACSALOVA, Lidia, dr.

Some new data on the behavior of illite during heating.
Epitoanyag 14 no.12:441-445 D '62.